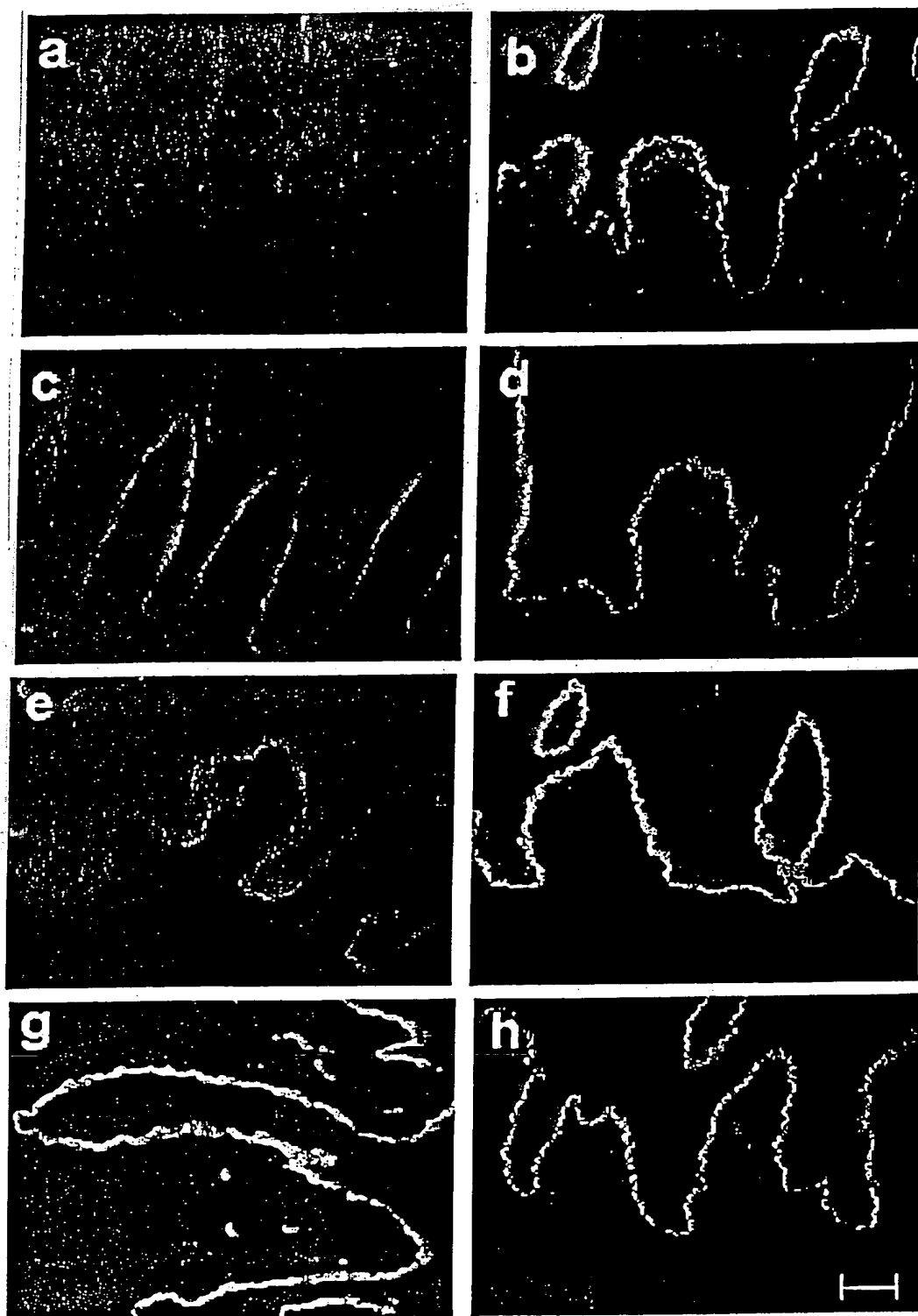
**FIG. 1**

**FIG. 2**

5' TGGGTCTCCTTATTACAGG -177

TGAGTCACACCTGAAACACAGGCTCTCTTCTGTGAGGACTGAGTCAGGTAGAGAGTGCATATAAACCTGATCAAGGAAAAG -91

GAAGGCACAGCGGAGCGCAGAGTGAGAACTCCACGCGCGAGGCGCGGGCAGCGACCCCTGCAGCGCGGACCGCGCGCGCTGGCC -1

ATGCCTGCGCTCTGGCTGAGCTGCTACCTCTGCTTCTGCTCTCTGCGCCGAGCCCGGGCCACCTCCGGGAGGGAAGTCTGTGATTGC 90

M P A L W L S C Y L C F S L L L P A A <sup>↑</sup> R A T S G R | E V C D C 30

AACGGGAAGTCCAGGCAATGCATCTTTGACCAGGAACCTCACAAACAGACAGGAAATGGATTCCGCTGCCTCAACTGCAATGACAACT 180

N G K S R Q C I F D Q E L H K Q T G N G F R C L N C N D N T 60

GATGGCATCCACTGCGAGAGGTGCAAGGCAGGATTTTACGACAGAGAGAAAGGGACCGCTGTTTACCTGCAATTGTAACCTCTAAAGGT 270

D G I H C E R C K A G F Y R Q R E R D R C L P C N C N S K G 90

TCTCTTAGCGCTCGATGTGACAACTCTGGACGGTGCAGCTGTAAAGCCAGGTGTGACAGGAGACAGGTGTGACCGATGTCTGCCCGCTTC 360

S L S A R C D N S G R C S C K P G V T G D R C D R C L P G F 120

CACACTCACTGATGCTGGGTGCGCCCAAGACCAAAGGCTGCTAGACTCCAAGTGTGACTGTGACCCAGCTGGCATCTCAGGGCCCTGT 450

H T L T D A G C A Q D Q R L L D S K C D C D P A G I S G P C 150

GACTCAGGCGCTGTGTCTGCAAGCCGGCTGTCTGAGAGCGCTGTGATAGGTGTGACACAGGTACTATCACTGGATGGGGGAAAC 540

D S G R C V C K P A V T G E R C D R C R P G Y Y H L D G G N 180

CCTCAGGCGTGTACCCAGTGTCTTTGCTATGGGCATTCCGCGAGCTGCCACAGCTCTGGGACTACAGTGTCCATAAAATCATCTCTGCC 630

P Q G C T Q C F C Y G H S A | S C H S S G D Y S V H K I I S A 210

TTCCATCAAGATGTTGATGGCTGGAAGGCTGTCCAAGAAACGGGTCTCTGCAAGCTCCAGTGGTCACAGCGCCATCGGGATATATT 720

F H Q D V D G W K A V Q R N G S P A K L Q W S Q R H R D I F 240

AGCTCAGCAGCAGTACAGACCTGTCTATTTTGTAGCTCTGCAAAATTTCTTGGGAATCAACAGGTGAGCTACGGGCAAGCCTATCT 810

S S A R R S D P V Y F V A P A K F L G N Q Q V S Y G Q S L S 270

TTTGACTACCGTGTGGATAGGGGAGGCAGACCCCATCTGCCATGACGTGATCCTGGAAGGTGCTGGTCTACGGATCACAGCTCCCTTG 900

F D Y R V D R G G R H P S A H D V I L E G A G L R I T A P L 300

ATGCCACTTAGCAAGACTGCCTTGTGGGATCACCAAGACTTACACATTGAGTTAAATGAACATCCAAGCAGTAATTGGAGCCCCCAG 990

M P L S K T L P C G I T K T Y T F R L N - E H P S S N W S P Q 330

CTAAGTTACTTTGAGTATCGGAGGTACTGCGGAACCTCACAGCCCTGCGGATCCGAGTACCTACGGAGAATACAGTACTGGGTACATT 1080

L S Y F E Y R R L L R N L T A L R I R A T Y G E Y S T G Y I 360

GACACGCTGACCTTGATTTCAGCCCCCGCTTTCTGGAGCCCCAGCGCCCTGGGTGGAACATGTGTATGCCCTGTGGCTACAAGGG 1170

D N V T L I S A R P V S G A P A P W V E <sup>→</sup> C V C P V G Y K G 390

CAGTTCTGCCAGGATTGTGCTTCCGGCTACAAAAGAGATTGAGCAGACTGGGACCTTTGGCACCTGTATTCCATGTAAGTCCAAAGG 1260

Q F C Q D C A S G Y K R D S A R L G P F G T C I P C N C Q G 420

GGAGGGGCTCGATCCAGACACAGGAGACTGTACTCAGGGGATGAGAACCCTGACATCCCTGAGTGTGCTGACTGCCCATTTGGTTTC 1350

G G A C D P D T G D C Y S G D E N P D I P E C A D C P I G F 450

TACAACGATCCACAAGACCCCGCAGCTGCAAGCCGTGCCCTGTGCAATGGGTTGAGTGTCTCCGTGATGCTGAGACAGAGGAGGTG 1440

Y N D P Q D P R S C K P C P C R N G F S C S V M P E T E E V 480

GTGTGCAATAACTGCCCCAGGTTGCTACTGGTGGCCGCTGTGAGCTCTGTGCTGATGGCTATTTTGGGACCCCTTCGGGGAACGTGGC 1530

V C N N C P Q G V T G A R C E L C A D G Y F G D P F G E R G 510

CCAGTGAGGCTTGTGACCCCTGTGAGTGAACAACAAGTGGACCTAGTGCCCTCCGGGAACGTGTGACCGCTGACAGGAGGTGTCTG 1620

P V R P C Q P C Q C N N N V D P S A S G N C D R L T G R C L 540

AAGTGCATCCACAACACAGCTGGGTCCACTGTGACCAAGTGAAGCAGGCTACTATGGGACCCGTTGGCTCCCAATCCAGCAGACAAG 1710

K C I H N T A G V H C D Q C K A G Y Y G D P L A P N P A D K 570

TGTCGAGCTTGCAACTGCAACCCAGTGGGCTCGGAGCCTGTGGAGTGTGCAAGTATGGCAGCTGTGTTTGAAGCCAGGCTTTGGTGGC 1800

C R A C N C N P V G S E P V E C R S D G S C V C K P G F G G 600

FIG. 3

CTGAGCTGTGAGCATGCGGCACTGACCAGCTGTCCAGCTTGCTATAATCAAGTGAAGGTTGAGATGGATCAGTTTATGCAGCAGCTCCAG 1890  
 L S C E H A A L T S C P A C Y N Q V K V Q M D Q F M Q Q L Q 630  
 ATCCTGGAGGCCCTGATTTCGAAGGCTCAGGGTGGAGCAGTACCCAAGCAGAGCTGGAAGGCAGGATGCAGCAGGCTGAGCAGGCCCTT 1980  
 I L E A L I S K A Q G G A V P N A E L E G R M Q Q A E Q A L 660  
 CGGACATTCTGAGAGAAGCCAGATTTTACAAGATGCTGTTAGATCCTTCAATCTCCGGTGGCCAAGGCAAGGACTCAAGAGAATAGC 2070  
 R D I L R E A Q I S Q D A V R S F N L R V A K A R T Q E N S 690  
 TACCGGGACCGCCTGGATGACCTCAAGATGACTGTGAAAGAGTTCCGGGCCCTGGGCACTCAGTATCAGAACCAGTTTCAGGATACTCGC 2160  
 Y R D R L D D L K M T V E R V R A L G S Q Y Q N Q V Q D T R 730  
 AGGCTCATCACTCAGATGCGCCTGAGCCTGGAGGAAAGTGAAGGCTTCCCTGCAAAACACCAACATTCTCTCTCAGAGCACTACGTGGGG 2250  
 R L I T Q M R L S L E E S E A S L Q N T N I P P S E H Y V G 750  
 CCAATGGCTTTAAAGTCTGGCTCAGGAGGCCACGAGATTGGCAGACAGCCATGTTTCAGTCAGCCAGTAACATGGAGCAACTGGCAAAG 2340  
 P N G F K S L A Q E A T R L A D S H V Q S A S N M E Q L A K 780  
 GAAACCCAGGAGTATTCAAAGAGCTGATGTCACTGGTGCAGGAGGCTCTGCAGGAAGGAGGCGGAAGCGGCAGCCTGGACGGAGCCGTG 2430  
 E T Q E Y S K E L M S L V R E A L Q E G G G S G S L D G A V 810  
 GTGCAAGGCTTGTGGGAAATTCAGAAAATAATCTCTGGCCAGGAGTGTGAGGGAGGCCACGCAACCGACATGGAAGCAGAT 2520  
 V Q R L V G K L Q K T K S L A Q E L S R E A T Q T D M E A D 840  
 AGGTCTTATCAGCATAGTCTCCACCTTCTCAATTCCGTGTCTCAGATTTCAGGAGTCAATGATCAGTCCTTGCAGGTAGAAGCGAAGAGG 2610  
 R S Y Q H S L H L L N S V S Q I Q G V N D Q S L Q V E A K R 870  
 CTCAGACAAAAGCTGATTCTCTCTCAAACCGTGTGACTAAGCATATGGATGAGTTCAAGCACGTGCAAGCAATCTGGGAAACTGGGAA 2700  
 L R Q K A D S L S N R V T K H M D E F K H V Q S N L G N W E 900  
 GAAGAAACCCGCGAGCTCTTACAGAATGGAAGAATGGGAGACAGACATCAGATCAGCTGCTTCCCGTGCCAACCTTGCTAAAAGCAGA 2790  
 E E T R Q L L Q N G K N G R Q T S D Q L L S R A N L A K S R 930  
 GCCCAAGAAGCACTAAGTATGGGCAATGCCACTTTTTATGAAGTTGAGAACATCTTAAAGAATCTCAGAGAGTTTGACCTGCAGGTTGGA 2880  
 A Q E A L S M G N A T F Y E V E N I L K N L R E F D L Q V G 960  
 GATAAAAGAGCAGAAGCTGAAGAGGCCATGAAGAGACTCTCTACATCAGCCAGAAGGTTGCAGGTGCCAGTGACAAGACGAAGCAAGCA 2970  
 D K R A E A E E A M K R L S Y I S Q K V A G A S D K T K Q A 990  
 GAAGCAGCCCTGGGCACTGCTGTGCGCAGCGCCAGAGGGCAAAGAATGCAGCCAGGGAGGCCCTGGAGATCTCTGGCAAGATAGAACAG 3060  
 E A A L G S A A A D A Q R A K N A A R E A L E I S G K I E Q 1020  
 GAGATAGGAGGCTGAACTTGAAGCCAATGTGACAGCAGATGGAGCCTTGGCCATGGAGAAGGAGTGGCCACTCTGAAAAGTGAGATG 3150  
 E I G G L N L E A N V T A D G A L A M E K G L A T L K S E M 1050  
 AGAGAAGTGAAGGAGAGCTGTCAAGGAAGGAGCAGGAGTTTGACATGGATATGGACGAGTGCAGATGGTAATTGCAGAGGCCCAAAGA 3240  
 R E V E G E L S R K E Q E F D M D M D A V Q M V I A E A Q R 1080  
 GTTGAAAACAGAGCCAAGAATGCTGGAGTTACGATCCAAGACACACTCAACACATTGGATGGCATCTACACCTAATAGACCAGCCTGGC 3330  
 V E N R A K N A G V T I Q D T L N T L D G I L H L I D Q P G 1110  
 AGTGTGGATGAAGAGAGGCTGATCTTACTGGAGCAGAAGCTTTTCCGAGCCAAGACTCAGATCAACAGCCAGTACGGCCCTTGATGTCA 3420  
 S V D E E R L I L L E Q K L F R A K T Q I N S Q L R P L M S 1140  
 GAGCTGGAAGAGAGGGCAGATCGGCAGAAGGGCCACCTCCGTTTCTGGAGACTAGCATAGATGGGATTCTGGCTGATGTGAAGAACCTG 3510  
 E L E E R A H R Q K G H L R F L E T S I D G I L A D V K N L 1170  
 GAGAATCATCAGGACAACCTGCCCCGGGCTGTACAATACCCAGGCTCTTGAGCAACAGTgaagctgccttagagatttctcaaccaag 3600  
 E N I R D N L P P G C Y N T Q A L E Q Q \* 1190  
 gttcttgggattcagacctagctgccttagagatttctcaaccaagttcttgggattcagacctcagggtcaggagcccccatgcggg 3690  
 tgggtgggattgggaatatttgaatatgtgaatgcgtgtgtcaggccccagtgaaacctgatcccatccctgagacctcgccagataa 3780  
 atgtctttattg 3789-3'

FIG. 3 cont'd



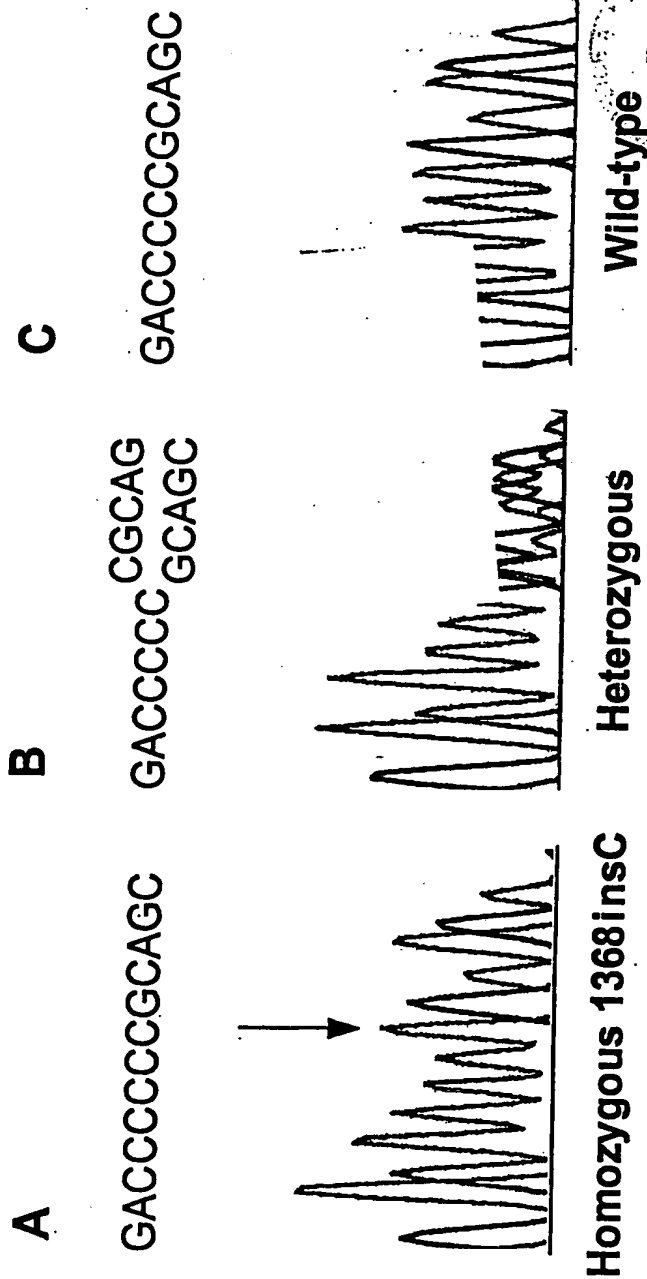


FIG. 5

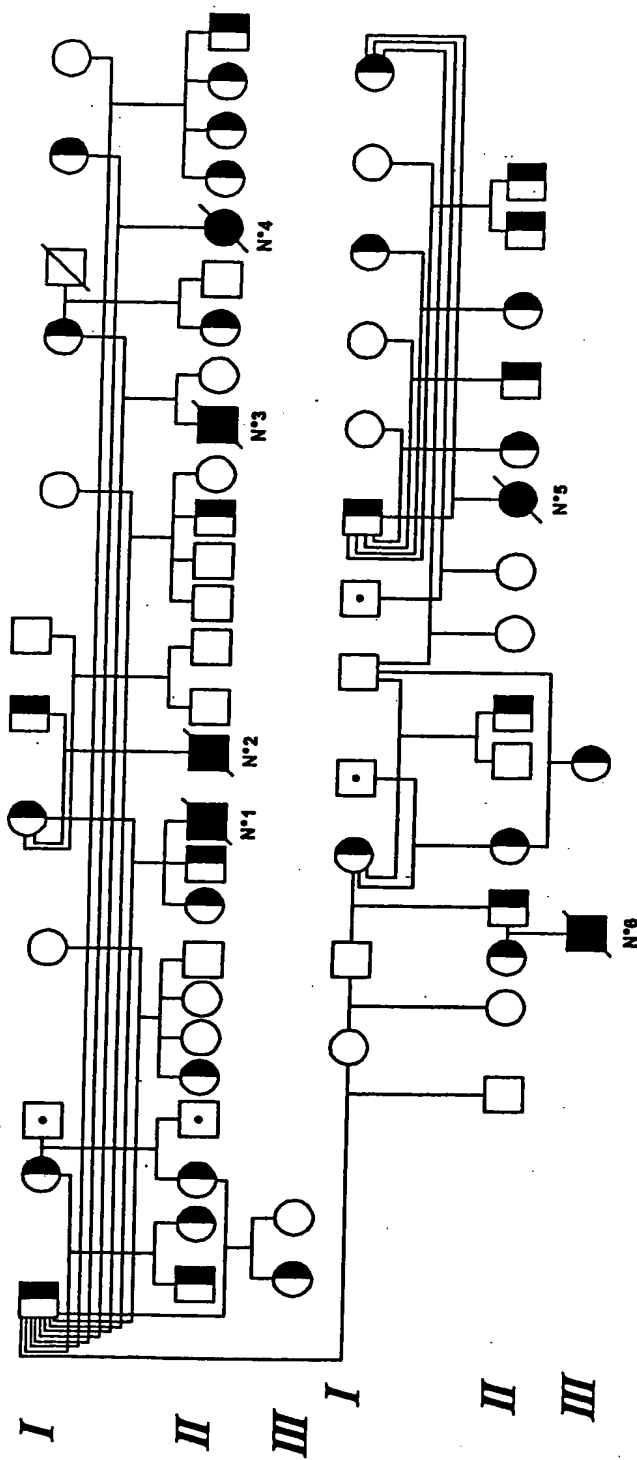


FIG. 6